

Comparisons of Job Characteristics

Focus Occupation: [Water and Wastewater Treatment Plant and System Operators \(51-8031\)](#)

Associated Occupation: [Gas Plant Operators \(51-8092\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Gas Plant Operators (51-8092)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	16.8	14.8	<	Expanded education and/or training may be required
Public Safety and Security	6.9	12.1	12.7	0	Current knowledge level may be sufficient
Physics	4.3	8.8	13.2	>>	Current knowledge level is likely more than sufficient
Chemistry	4.8	8.4	12.6	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Gas Plant Operators (51-8092)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	16.0	11.9	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	12.0	11.4	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.8	10.3	0	Current skill level may be sufficient
Troubleshooting	4.5	9.4	9.3	0	Current skill level may be sufficient
Equipment Maintenance	3.5	8.4	9.3	>	Skill level is likely sufficient
Repairing	3.4	8.4	9.0	0	Current skill level may be sufficient
Equipment Selection	3.3	6.3	7.4	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 79			
Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031) Associated Occupation: Gas Plant Operators (51-8092)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Auditory Attention	5.9	13.2	6.6	<<	Extensive improvement in abilities may be required
Perceptual Speed	7.4	12.8	9.8	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	10.7	7.5	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	9.0	6.7	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	8.6	6.9	<	Some improvement in abilities may be required
Rate Control	3.8	7.6	5.9	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031) Associated Occupation: Gas Plant Operators (51-8092)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Clean equipment or machinery	20	
Control operation of compressors	76	
Direct and coordinate activities of workers or staff	3	
Maintain consistent production quality	50	
Maintain or repair industrial or related equipment/machinery	39	
Maintain production or work records	19	
Monitor production machinery/equipment operation to detect problems	27	
Operate chemical processing equipment	77	
Test materials or solutions	73	
Use hand or power tools	2	
Use laboratory equipment	60	
Use precision measuring tools or equipment	17	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)
Associated Occupation: Gas Plant Operators (51-8092)

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.